

**IN THE SPECIFICATION:**

Please amend the specification as follows:

Page 1, line 1, insert the title --Field of the Invention--;

line 7, insert the title --Background of the Invention--;

line 13, insert the title --Summary of the Invention--; and

line 27, insert the title --Brief Description of the Drawings--.

Page 2, line 30, insert the title --Detailed Description of the Invention--.

**IN THE CLAIMS:**

A. Please cancel claim 21 without prejudice or disclaimer.

B. Please amend claims 1-20 as follows:

**Amended Claims With Mark-ups to Show Changes Made**

1. (Amended) An electro-optic device comprising:

a substrate; and

an integrated optical waveguide extending across the substrate, two doped regions being provided such that an electrical signal can be applied across the doped regions to alter the density of charge carriers within the waveguide, the doped regions each comprising a plurality of doped areas spaced apart from each other along the length of the waveguide.